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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/777,664		02/07/2001	Sandhya Mishra	2001_0120A	9236
513	7590	05/24/2004		EXAMINER	
	,	ND & PONACK	MARX, IRENE		
2033 K STREET N. W. SUITE 800				ART UNIT	PAPER NUMBER
WASHINGTON, DC 20006-1021				1651	•
				DATE MAILED: 05/24/200-	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
		MISHRA ET AL.						
Office Action Summary	09/777,664	Art Unit						
Onice Action Cummary	Examiner							
TI MAII DIO DATE SALIS SOME SISSIANI ORG	Irene Marx	1651						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to communication(s) filed on 06 M	l <u>ay 2004</u> .							
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.							
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is						
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) Claim(s) 21-38 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
	6)⊠ Claim(s) <u>21-38</u> is/are rejected.							
·	7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.								
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:								

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The amendment filed 5/6/04 is acknowledged. Claims 21-38 are being considered on the merits.

The application and claims should be reviewed for errors and conformity with domestic practice.

As noted in the last Office action error occurs, for example, in the spelling of "Cyanophycae" and "Nostocacae". The proper spelling is "Cyanophyceae" and "Nostocaceae". In claim 25, "aesturaii" is misspelled. The correct term is "aestuarii".

Claim Rejections - 35 USC § 112

Claims 21-38 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 21 and 36 are inconsistent in the recitation of "fresh batch of raw brine" in claim 21, item (iv) and "fresh batch of **concentrated** raw brine" in claim 36.

Claim 36 is confusing in the recitation of "substantial" with respect to uptake and calcium and the amount of accumulated calcium. The intended meaning is unclear even when reading the claims in light of the specification.

For proper antecedent basis, claim 26 should be amended to replace "used" with -- cultured-- as in step (i).

In claim 27, the antecedent basis in claims 21 through 23 of "are isolated in pure form using a serial dilution method" is queried. Is this an additional step? At what point of the process is this step carried out? In claims 28 and 29, it is unclear whether or not isolated marine cyanobacteria are cultured. It is noted that in claim 23, all of "Oscillatoriaceae, Nostocacae and Chroococcaceae" are required. How are all three isolated "in pure form".

The antecedent basis of "the concentrated brine" in claim 34 is queried. Is it step (ii) of claim 21?

To better characterize the invention, it is recommended that language such as "for a time effective to remove calcium ions"; "at conditions effect to remove calcium ions", etc. as appropriate be added to the claims to further clarify the invention.

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No claim is allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irene Marx whose telephone number is (571) 272-0919. The examiner can normally be reached on M-F (6:30-3:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Wityshyn can be reached on (571) 272-0926. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Irene Marx
Primary Examiner
Art Unit 1651